

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

Claim 1 (Currently Amended) A blind fastener comprising:
a mandrel and an elongate cylindrical body mounted on an elongate stem of said mandrel so as to extend co-axially about a central axis of said blind fastener;
said body having a pre-formed radially enlarged flange at one end thereof and a tail end at the opposite end for insertion through a hole in a workpiece having an outer surface;
said mandrel having a mandrel head in operative engagement with said tail end of said fastener for transmitting force thereto during setting of said fastener,
said body having two different, uniform external diameters and a radially extending shoulder therebetween, such that the external diameter of the body adjacent the flange is greater than the external diameter of the body adjacent the tail end and said body between said shoulder and said flange is at least partially encased in a resilient material,
wherein said radially extending shoulder contacts said outer surface of said workpiece and said shoulder is configured to bear against a portion of the outer surface, and
whereby after said setting of said fastener a portion of said resilient material remains exposed beyond said outer surface for providing a stop surface.

Claim 2 (Original) A blind fastener as claimed in claim 1 in wherein said body between said shoulder and said flange is enclosed in a cylindrical sleeve of resilient material.

Claim 3 (Original) A blind fastener as claimed in claim 2 wherein said cylindrical sleeve of resilient material has an external diameter equal to or less than the outer diameter of said flange.

Claim 4 (Previously Presented) The blind fastener of claim 1, wherein the external diameter of said body adjacent said flange is at least 1.4 times the external diameter of the body adjacent said tail end.

Claim 5 (Previously Presented) The blind fastener of, claim 1, wherein said shoulder extends perpendicular to said central axis.

Claim 6 (Previously Presented) The blind fastener of claim 1, wherein said shoulder is positioned between 25% and 75% of the length of said body remote from said flange.

Claim 7 (Previously Presented) The blind fastener of claim 1, wherein the resilient material has a hardness of between 50 and 80 shore A hardness.

Claim 8 (Previously Presented) The blind fastener of claim 7, wherein the resilient material has a hardness of between 60 and 70 shore A hardness.

Claim 9 (Previously Presented) The blind fastener of claim 1, wherein the resilient material is plastic.

Claim 10 (Previously Presented) The blind fastener of claim 1, wherein an end of the body opposite the flange end is open.

Claim 11 (Canceled)

Claim 12 (Previously Presented) The blind fastener of claim 1, wherein the resilient material is rubber.

Claim 13 (Previously Presented) The blind fastener of claim 1, wherein an end of the body opposite the flange end is closed.

Claim 14 (Currently Amended) A fastener configured to be inserted into an opening defined in a work piece, the work piece having a first surface, the fastener comprising:

a body having a first portion and a second portion, the first portion having a larger cross sectional area than the second portion;

a flange formed on an end of the body;

a shoulder defined at the intersection of the first portion and the second portion, the shoulder configured to extend along the first surface of the work piece in a manner that prevents the first portion from pulling through the opening;

a mandrel having a mandrel head, the mandrel mounted within the body; and

~~a resilient stop attached to the first portion, wherein prior to the mandrel being pulled through the body the resilient stop is coupled to the first portion of the body so that the resilient stop and the body are not movable with respect to each other~~ so as to absorb shock.

Claim 15 (Previously Presented) The fastener of claim 14, wherein the resilient stop is made from an elastomeric compound.

Claim 16 (Previously Presented) The fastener of claim 14, wherein the resilient stop is made from a silicone based rubber compound.

Claim 17 (Previously Presented) The fastener of claim 14, wherein when the resilient stop makes contact with a carrier the resilient stop is deformed in both a radial and a longitudinal direction with respect to a body axis.

Claim 18 (Previously Presented) The fastener of claim 14, wherein the resilient stop has a Shore A hardness between 60 and 70.

Claim 19 (Currently Amended) A blind rivet assembly, comprising:

a work piece defining an opening, the work piece having a bearing surface;

a rivet body having a first portion with a first diameter and a second portion with a second diameter, the first diameter being substantially greater than the second diameter,

a flange formed on a distal end of the first portion;

a mandrel having a mandrel head, the mandrel disposable within the rivet body; ~~and~~

a shoulder defined at the intersection of the first portion and the second portion, the shoulder contacts the bearing surface and is configured to prevent the first portion from pulling through the opening; and

a resilient member disposed around a substantial part of the first portion of the rivet body, whereby after the mandrel head is pulled through the rivet body the resilient member ~~includes an~~ remains exposed beyond the bearing surface to act as a stop surface.

Claim 20 (Previously Presented) The fastener of claim 19, wherein the resilient member is made from a silicone based rubber compound.

Claim 21 (Previously Presented) The fastener of claim 19, further comprising a carrier, the carrier movable from a first position to a second position, whereby the carrier contacts the exposed stop surface in the second position.